4. (Three Times Amended) The method defined in Claim 1 wherein applying the overlapped reversible wavelet transform comprises applying to the input data a plurality of [said] non-minimal length reversible filters comprised of [comprise] a plurality of one-dimensional filters.

23. (Four Times Amended) An encoder for encoding input data comprising:

a transform coder coupled to receive the input data and generate a series of coefficients that represent a decomposition of the input data using an overlapped reversible wavelet transform; and

an embedded coder coupled to receive the series of coefficients and perform bit-significance encoding on the series of coefficients to create coded data, when the embedded coder comprises a context model to model data based on known coefficients in other frequency bands and neighboring coefficients in the same frequency band, the embedded coder producing the coded data as the series of coefficients are received.

39. (Twice Amended) A system comprising:

a reversible Two/Ten variable wavelet filter; and

a coder coupled to the Two/Ten filter to code coefficients generated by the Two/Ten wavelet transform filter.

REMARKS

Applicant respectfully requests reconsideration of this application as amended. Claims 1, 4-8, 12-13, and 15-43 are remaining in the application. Claims 1, 4, 23 and 39 have been amended. No claims have been canceled.